3 July 1989

Document Processing Center Office of Toxic Substances, TS-790 U. S. Environmental Protection Agency 401 M. Street, S.W. Washington, D. C. 20460

Attention: CAIR Reporting Office

Gentlemen:

Enclosed please find applicable pages of EPA Form 7710-52 which report to you the processing of small quantities of 80/20 2,4-/2,6-toluene disocyanate (CAS 26471-62-5) at our Denison, Texas facility.

Our reporting was precipitated by a letter from our supplier, IPI, of Elkton, Maryland, who provides us a two-part product trade-named Isofoam. We use 8 kilograms per year in the molding of polyurethane foam blocks as part of a U. S. Government contract.

Please let us comment on the helpfulness and courtesy shown by your personnel who staff your (800) area code telephone line. Preparation of this report was greatly facilitated by their assistance.

Sincerely,

ohn Pellek, P.E.

\$afety/Environmental Manager

JP/dp

TI-20945D

Enclosure(s)



Form Approved
OMB No. 2010-0019
Approval Expires 12-31-89

90-890000 46-3 3 EPA-DTS

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Comprehensive Assessment Information Rule REPORTING FORM

When completed, send this form to:

Document Processing Center
Office of Toxic Substances, TS-790
U.S. Environmental Protection Agency
401 M Street, SW
Washington, DC 20460
Attention: CAIR Reporting Office

For Agency Use Only:

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Document
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EPA Form 7710-52

SECTION 1 GENERAL MANUFACTURER, IMPORTER, AND PROCESSOR INFORMATION PART A GENERAL REPORTING INFORMATION This Comprehensive Assessment Information Rule (CAIR) Reporting Form has been completed in response to the Federal Register Notice of.... [7]2][2]2][8]8 CBI If a Chemical Abstracts Service Number (CAS No.) is provided in the Federal Register, list the CAS No. $[0]\overline{2}\overline{4}\overline{7}\overline{7}\overline{7}-\overline{6}\overline{2}\overline{2}\overline{5}$ If a chemical substance CAS No. is not provided in the Federal Register, list either (i) the chemical name, (ii) the mixture name, or (iii) the trade name of the chemical substance as provided in the Federal Register. Chemical name as listed in the rule (ii) Name of mixture as listed in the rule (iii) Trade name as listed in the rule If a chemical category is provided in the Federal Register, report the name of the category as listed in the rule, the chemical substance CAS No. you are reporting on which falls under the listed category, and the chemical name of the substance you are reporting on which falls under the listed category. Name of category as listed in the rule TDI CAS No. of chemical substance $\overline{0}[\overline{2}][\overline{6}][\overline{4}][\overline{7}][\overline{6}][\overline{2}][\overline{5}]$ Name of chemical substance TOLUENE Diisocyanate 1.02 Identify your reporting status under CAIR by circling the appropriate response(s). CBI Importer 2 Processor X/P manufacturer reporting for customer who is a processor 4 Mark (X) this box if you attach a continuation sheet.

1.03	Does the substance you are reporting on have an " x/p " designation associated with it in the above-listed <u>Federal</u> <u>Register</u> Notice?				
CBI	Yes				
ŗJ	No	Go to question 1.05			
1.04 CBI	a.	Do you manufacture, import, or process the listed substance and distribute it under a trade name(s) different than that listed in the Federal Register Notice? Circle the appropriate response.			
[]		Yes 1			
''		No 2			
	b.	Check the appropriate box below:			
		[_] You have chosen to notify your customers of their reporting obligations			
•		Provide the trade name(s)			
		[] You have chosen to report for your customers			
		[] You have submitted the trade name(s) to EPA one day after the effective date of the rule in the <u>Federal Register</u> Notice under which you are reporting.			
1.05 CBI	repo	you buy a trade name product and are reporting because you were notified of your orting requirements by your trade name supplier, provide that trade name.			
[_]	Trac	le name Isofoam F-0071A			
` <i>'</i>	Is t	he trade name product a mixture? Circle the appropriate response.			
	Yes	······①			
	No .	2			
1.06 CBI	Cert sign	ification The person who is responsible for the completion of this form must the certification statement below.			
<u></u>]	"I h	ereby certify that, to the best of my knowledge and belief, all information red on this form is complete and accurate." JOHN PELLEK G/28/89 NAME SIGNATURE DATE SIGNED			
	SAFR	TITLE SIGNATURE DATE BIGNED SIGNATURE DATE BIGNED TELEPHONE NO.			
	ark	(X) this box if you attach a continuation sheet.			

1.07 <u>CBI</u> [_]	Exemptions From Reporting — If you have provided EPA or another Federal agency with the required information on a CAIR Reporting Form for the listed substance within the past 3 years, and this information is current, accurate, and complete for the time period specified in the rule, then sign the certification below. You are required to complete section 1 of this CAIR form and provide any information now required but not previously submitted. Provide a copy of any previous submissions along with your Section 1 submission.				
	"I hereby certify that, to the information which I have not into EPA within the past 3 years period specified in the rule."	cluded in t	his CAIR Reporting H	Form has been submitted	
	NA				
	NAME		SIGNATURE	DATE SIGNED	
	TITLE	()	TELEPHONE NO.	DATE OF PREVIOUS SUBMISSION	
1.08 <u>CBI</u>	CBI Certification If you have asserted any CBI claims in this report you must certify that the following statements truthfully and accurately apply to all of those confidentiality claims which you have asserted. "My company has taken measures to protect the confidentiality of the information,				
[_]	and it will continue to take the been, reasonably ascertainable tusing legitimate means (other tha judicial or quasi-judicial proinformation is not publicly available would cause substantial harm to	ese measure by other per nan discover oceeding) wi ilable else	s; the information in sons (other than go by based on a showing thout my company's where; and disclosur	s not, and has not overnment bodies) by g of special need in consent; the e of the information	
	NA				
	NAME		SIGNATURE	DATE SIGNED	
	TITLE	()	TELEPHONE NO.	· 	

PART	B CORPORATE DATA
1.09	Facility Identification
(<u></u>]	Name [T]E]X]A]S]]]]N]S]T]R]U]M]E]N]T]S]]]]]]]]]]]]Address [H][]G]H]W]A]Y]]][]B]4]]U]E]S]T]]]]]]]]]]]]]]]]]]
	[DIEINITISIOIN]_ _ _ _ _ _ _ _ _ _ _ _
	「 <u>〒 </u> [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u>フ</u>] [<u> </u>] [[] [] [] [] [[] [] [
	Dun & Bradstreet Number [0]4]-[9]0]3]-[8]2]0]1] EPA ID Number [1]X]0]9]8]1]5]7]6]7] Employer ID Number [1]1]1]1]1 Primary Standard Industrial Classification (SIC) Code [3]6]7]7] Other SIC Code [1]1]1]1 Other SIC Code [1]1]1]1
1.10	Company Headquarters Identification
<u>CBI</u>	Name [7] E X A S I N S T R U M E N T S I N C C N T E X P R E S S W A Address [] 3 5 0 0 N 1 C E N T R A L E X P R E S S W A Street [D A L L A S 1 1 1 1 1 1 1 1
	Employer ID Number

1.11	Parent Company Identification
<u>CBI</u>	Name [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_]_]-[_]]_]_]_]_]_
	Dun & Bradstreet Number
1.12	Technical Contact
<u>CBI</u> []	Name [M] T E E E E E E E E E
	[丁]之] [万]5]0]코]0][]]]] Telephone Number
1.13	This reporting year is from
<u></u>	Mark (X) this box if you attach a continuation sheet.

1.14	Facility Acquired If you purchased this facility during the reporting year, provide the following information about the seller:
CBI	Name of Seller [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]_]_][_]_]_]_]_]]]
	Employer ID Number
	Date of Sale
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
1.15	Facility Sold If you sold this facility during the reporting year, provide the following information about the buyer:
CBI	Name of Buyer [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
[_]	Mailing Address [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	[_]_] [_]_]-[_]]]-[]]]]] State
	Employer ID Number
	Date of Purchase
	Contact Person [_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]_]
	Telephone Number
	Mark (X) this box if you attach a continuation sheet.

Classification	Quantity
danufactured	
mported	
Processed (include quantity repackaged)	<u>8</u>
of that quantity manufactured or imported, report that quantity:	
In storage at the beginning of the reporting year	
For on-site use or processing	• • • •
For direct commercial distribution (including export)	• • • •
In storage at the end of the reporting year	• • • •
of that quantity processed, report that quantity:	
In storage at the beginning of the reporting year	4
Processed as a reactant (chemical producer)	• • • •
Processed as a formulation component (mixture producer)	• • • •
Processed as an article component (article producer)	<u>8</u>
Repackaged (including export)	
In storage at the end of the reporting year	<u>4</u>

1.17 Mixture If the listed substance on which you are required to report if or a component of a mixture, provide the following information for each chemical. (If the mixture composition is variable, report an average per each component chemical for all formulations.) CBI				
_]	Component Name	Supplier Name	Avera Composition (specify p e.g., 45	by Weight
	8,4 TDI	IPI Isofoam Sustems	<u>80 %</u>	
	2,6 TDI	IPI Isofoam Systems IPI Isofoam Systems	20%	
			Total	100%

2.04	State the quantity of the listed substance that your facility manufor processed during the 3 corporate fiscal years preceding the repodescending order.	actured, im rting year	nported in
CBI			
[_]	Year ending	[<u>7</u>] <u>2</u>] Mo.	B ∣ <u>S</u> Year
	Quantity manufactured	0	k
	Quantity imported	.0	k
	Quantity processed	8	k,
	Year ending	[<u>7]2</u>]	l 8 l∕o Year
	Quantity manufactured	0	kį
	Quantity imported	0	kį
	Quantity processed	රි	k
	Year ending	·· [7]2]	[8] 7 Year
	Quantity manufactured	0	k
	Quantity imported	0	k
	Quantity processed	8	k
2.05 CBI	Specify the manner in which you manufactured the listed substance. appropriate process types.	Circle all	
[_]	Continuous process		4
	Semicontinuous process		
	Batch process	• • • • • • • • •	3
[_]	Mark (X) this box if you attach a con±inuation sheet.		

2.06 CBI	6 Specify the manner in which you processed the listed substance. Circle all appropriate process types.				
[_]					
	Semicontinuous process	5	• • • • • • • • • • • • • • • • • • • •	2	
	Batch process		••••••	3	
2.07 CBI	State your facility's name-plate capacity for manufacturing or processing the listed substance. (If you are a batch manufacturer or batch processor, do not answer this question.)				
[_]	Manufacturing capacity	,		kg/yr	
	Processing capacity	••••••		kg/yr	
2.08 CBI	If you intend to increase or decrease the quantity of the listed substance manufactured, imported, or processed at any time after your current corporate fiscal year, estimate the increase or decrease based upon the reporting year's production volume.				
[_]		Manufacturing Quantity (kg)	Importing Quantity (kg)	Processing Quantity (kg)	
	Amount of increase	NA	NA	NA	
	Amount of decrease	NA	NA	NA	
				A17 - 144 -	
[_]	Mark (X) this box if y	ou attach a cen‡inuat:	ion sheet.		

2.09	listed substanc substance durin	argest volume manufacturing or processing proce e, specify the number of days you manufactured g the reporting year. Also specify the average s type was operated. (If only one or two opera	or processed number of h	the listed ours per
<u>CBI</u>			Days/Year	Average Hours/Day
	Process Type #1	(The process type involving the largest quantity of the listed substance.)		
		Manufactured		_0_
		Processed	260	2_
	Process Type #2	(The process type involving the 2nd largest quantity of the listed substance.)	-	
		Manufactured	NA	NA
		Processed	NA	NA
	Process Type #3	(The process type involving the 3rd largest quantity of the listed substance.)		
		Manufactured	_NA	_NA
		Processed	NA	NA_
2.10 <u>CBI</u> [_]				
[_]	Mark (X) this bo	ox if you attach a continuation sheet.		

1	etc.). CAS No.	Chemical Name	Byproduct, Coproduct or Impurity ¹	Concentration (%) (specify ± % precision)	Source of By- products, Co- products, or Impurities
		NONE			
		·			
	Use the follo B = Byproduct C = Coproduct I = Impurity	wing codes to designat	te byproduct, copro	duct, or impurity	y:

[___] Mark (X) this box if you attach a continuation sheet.

2.12 <u>CBI</u> [_]	imported, or processed using the listed substance during the reporting year. Li the quantity of listed substance you use for each product type as a percentage o total volume of listed substance used during the reporting year. Also list the quantity of listed substance used captively on-site as a percentage of the value listed under column b., and the types of end-users for each product type. (Refe					
	a.	b.	c.	d.		
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²		
	1 roduct Types			1)		
		100				
	Use the following code A = Solvent B = Synthetic reactan C = Catalyst/Initiato Sensitizer D = Inhibitor/Stabili Antioxidant E = Analytical reagen F = Chelator/Coagulan G = Cleanser/Detergen H = Lubricant/Friction agent I = Surfactant/Emulsi J = Flame retardant K = Coating/Binder/Ad	t r/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier hesive and additives	L = Moldable/Castab M = Plasticizer N = Dye/Pigment/Col O = Photographic/Re and additives P = Electrodepositi Q = Fuel and fuel a R = Explosive chemi S = Fragrance/Flavo T = Pollution contr U = Functional flui V = Metal alloy and W = Rheological mod X = Other (specify)	on/Plating chemicals dditives cals and additives r chemicals ol chemicals ds and additives additives ifier		
	² Use the following codes to designate the type of end-users:					
-	I = Industrial CM = Commercial	CS = Cons H = Othe	umer r (specify) <u>U.S. Mu</u>	-ITARY		

2.13 <u>CBI</u> [_]	Expected Product Types import, or process using corporate fiscal year. import, or process for substance used during used captively on-site types of end-users for explanation and an example.	ng the listed substa For each use, specenth each use as a percethe reporting year. as a percentage of each product type.	nce at any time after ify the quantity you on the total volume. Also list the quantithe value listed under	your current expect to manufacture, lume of listed ty of listed substance r column b., and the
	a.	b.	c.	d.
	Product Types ¹	% of Quantity Manufactured, Imported, or Processed	% of Quantity Used Captively On-Site	Type of End-Users ²
	L	100		H
	A = Solvent B = Synthetic reactant C = Catalyst/Initiator Sensitizer D = Inhibitor/Stabiliz Antioxidant E = Analytical reagent F = Chelator/Coagulant G = Cleanser/Detergent H = Lubricant/Friction agent I = Surfactant/Emulsiz J = Flame retardant K = Coating/Binder/Add	t c/Accelerator/ zer/Scavenger/ t t/Sequestrant t/Degreaser n modifier/Antiwear fier mesive and additives	L = Moldable/Castable M = Plasticizer N = Dye/Pigment/Color O = Photographic/Reprand additives P = Electrodeposition Q = Fuel and fuel add R = Explosive chemica S = Fragrance/Flavor T = Pollution control U = Functional fluid V = Metal alloy and W = Rheological modi X = Other (specify)	n/Plating chemicals ditives als and additives chemicals l chemicals s and additives additives
	<pre>I = Industrial CM = Commercial Mark (X) this box if you</pre>	CS = Cons H = Othe	umer r (specify) <u>U.S. Mili</u>	rary

	Dinal Dualuation	Average % Composition of	d.			
Product Type ¹	Final Product's Physical Form ²	Listed Substance in Final Product	Type of End-Users ³			
L	F4	29	Н			
A = Solvent	odes to designate pro	duct types: L = Moldable/Castable	e/Rubber and addi			
<pre>B = Synthetic react C = Catalyst/Initia Sensitizer</pre>		<pre>M = Plasticizer N = Dye/Pigment/Color 0 = Photographic/Repr</pre>				
D = Inhibitor/Stabi Antioxidant	lizer/Scavenger/	and additives P = Electrodeposition				
E = Analytical reag		Q = Fuel and fuel additives				
<pre>F = Chelator/Coagul G = Cleanser/Deterg</pre>		S = Fragrance/Flavor				
<pre>H = Lubricant/Frict</pre>	ion modifier/Antiwear	T = Pollution control	l chemicals			
agent	-161	U = Functional fluids				
<pre>I = Surfactant/Emul J = Flame retardant</pre>		<pre>V = Metal alloy and a W = Rheological modif</pre>				
	Adhesive and additives		riei			
² Use the following codes to designate the final product's physical form:						
	F2 = Crys					
B = Liquid	F3 = Grant					
<pre>C = Aqueous solutio D = Paste</pre>	n F4 = Othe G = Gel	31 S0110				
E = Slurry	•	er (specify)				
F1 = Powder						
	odes to designate the					
I = Industrial	CS = Cons	sumer er (specify) <u>U.S. M_{IL}I</u>	m4 m2 V			
CM = Commercial	H = Othe	er (specity) <u>U.S. MILIT</u>	CARY			

2.15 CBI		le all applicable modes of transportation used to deliver ed substance to off-site customers.	bulk shipments	of the						
[_]	Truc	k		(1						
	Rail	car		2						
	Barg	e, Vessel		3						
	Pipeline									
	Plan	e		5						
	0the:	r (specify)		6						
2.16 <u>CBI</u>	or position of en	omer Use Estimate the quantity of the listed substance repared by your customers during the reporting year for us and use listed (i-iv). gory of End Use								
	i.	Industrial Products								
		Chemical or mixture	NA	kg/yr						
		Article	_							
	ii.	Commercial Products	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0,						
		Chemical or mixture	NA	kg/yr						
		Article								
	iii.	Consumer Products								
		Chemical or mixture	ΝΑ	kg/yr						
•		Article		kg/yr						
	iv.	Other -								
		Distribution (excluding export)	NA	kg/yr						
		Export	NA	kg/yr						
		Quantity of substance consumed as reactant	NA	kg/yr						
		Unknown customer uses		kg/yr						
		· ·								
[_]	Mark	(X) this box if you attach a continuation sheet.								

CECTION	2	DDUCECCUD	DΛIJ	MATERIAL	IDENTIFICATION
SECTION		しないしたうういん	K M W	DATECTAL	TUCNITICATION

PART	A GENERAL DATA		
3.01 <u>CBI</u> [_]	Specify the quantity purchased and the average price for each major source of supply listed. Product trad The average price is the market value of the product substance.	es are treated a	s purchases.
(<u> </u>	Source of Supply	Quantity (kg)	Average Price (\$/kg)
	The listed substance was manufactured on-site.		
	The listed substance was transferred from a different company site.		0
	The listed substance was purchased directly from a manufacturer or importer.	8	7 5
	The listed substance was purchased from a distributor or repackager.		
	The listed substance was purchased from a mixture producer.		
3.02 CBI	Circle all applicable modes of transportation used to your facility.	deliver the lis	ted substance to
_	Truck Railcar Barge, Vessel Pipeline Plane Other (specify)		
	Mark (X) this box if you attach a continuation sheet.		

3.03 CBI	a.	Circle all applicable containers used to transport the listed substance to yo facility.	ur
[_]		Bags	1
		Boxes	2
:		Free standing tank cylinders	3
		Tank rail cars	4
		Hopper cars	5
1		Tank trucks	6
		Hopper trucks	7
		Drums	8
		Pipeline	9
		Other (specify) 5 GALLON CANS	. 10
	b.	If the listed substance is transported in pressurized tank cylinders, tank racars, or tank trucks, state the pressure of the tanks.	il
		Tank cylinders	mmHg
		Tank rail cars	mmHg
		Tank trucks	mmHg
		•	
[_]	Mark	k (X) this box if you attach a continuation sheet.	

3.04 <u>CBI</u> []	If you obtain the listed substance in the form of a mixture, list the trade name(s) of the mixture, the name of its supplier(s) or manufacturer(s), an estimate of the average percent composition by weight of the listed substance in the mixture, and the amount of mixture processed during the reporting year.						
·	Trade Name	Supplier or Manufacturer	Average % Composition by Weight (specify ± % precision)	Amount Processed (kg/yr)			
	Isoform® F-0071A	IPI, A Division of PMC, Inc.	80/20 2,4-/2,6 TDI	8			
			v*	·			

 $[\ \]$ Mark (X) this box if you attach a continuation sheet.

3.05 <u>CBI</u>	State the quantity of the listed substance used as a raw material during the reporting year in the form of a class I chemical, class II chemical, or polymer, and the percent composition, by weight, of the listed substance.							
·,		Quantity Used (kg/yr)	<pre>% Composition by Weight of Listed Sub- stance in Raw Material (specify ± % precision)</pre>					
	Class I chemical	<u> 8 </u>	100					
	Class II chemical							
	Polymer	<u>O</u>	0					
e e								
		,						

SECTION	4	PHYSTCAL.	/CHEMICAL	PROPERTIES
SECTION	Δ	PHYSICAL	CHEMICAL	PROPERTIES

c	۵n	۱۵	ra	1	Ιn	c t	71	10	t i	οn	٠
17			La	1		э.	1 1	IL.			 ٠

If you are reporting on a mixture as defined in the glossary, reply to questions in Section 4 that are inappropriate to mixtures by stating "NA -- mixture."

For questions 4.06-4.15, if you possess any hazard warning statement, label, MSDS, or other notice that addresses the information requested, you may submit a copy or reasonable facsimile in lieu of answering those questions which it addresses.

LANI	A PHYSICAL/CHEMICAL DA	ATA SUMMARY		
4.01 CBI	substance as it is mar substance in the final	urity for the three major nufactured, imported, or l product form for manuf or at the point you beg	r processed. Measure t facturing activities, a	the purity of the
[_]		Manufacture	Import	Process
	Technical grade #1	NA % purity	NA % purity	_UK_% purity
	Technical grade #2	NA % purity	NA % purity	NA_% purity
	Technical grade #3	NA % purity	NA % purity	NA % purity
4.02	1 Major = Greatest quar Submit your most recer	ntity of listed substand	afety Data Sheet (MSDS)	for the listed
4.02	1 Major = Greatest quar Submit your most recer substance, and for eve an MSDS that you devel version. Indicate whe	ntity of listed substanc	afety Data Sheet (MSDS) ing the listed substanc oped by a different sou	for the listed e. If you possess
4.02	1 Major = Greatest quar Submit your most recer substance, and for eve an MSDS that you devel version. Indicate who appropriate response.	ntity of listed substance ontly updated Material Savery formulation contains loped and an MSDS development at least one MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different sou has been submitted by	for the listed ee. If you possess arce, submit your circling the
4.02	1 Major = Greatest quar Submit your most recersubstance, and for ever an MSDS that you develoresion. Indicate who appropriate response.	ntity of listed substance ntly updated Material Savery formulation contains loped and an MSDS develo	afety Data Sheet (MSDS) ing the listed substance oped by a different sou has been submitted by	for the listed te. If you possess tree, submit your circling the
4.02	1 Major = Greatest quares Submit your most recers substance, and for ever an MSDS that you develous version. Indicate whe appropriate response. Yes	ntity of listed substance ontly updated Material Savery formulation contains loped and an MSDS development on the MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different sou has been submitted by	for the listed te. If you possess trce, submit your circling the
4.02	1 Major = Greatest quares Submit your most recers substance, and for ever an MSDS that you developerate version. Indicate whe appropriate response. Yes	ntity of listed substance ontly updated Material Savery formulation contains loped and an MSDS development one MSDS	afety Data Sheet (MSDS) ing the listed substance oped by a different south has been submitted by our company or by a different south	for the listed te. If you possess tree, submit your circling the
4.02	1 Major = Greatest quares Submit your most recers substance, and for ever an MSDS that you developerate response. Yes	ntity of listed substance ontly updated Material Savery formulation contains loped and an MSDS development one MSDS MSDS was developed by you	afety Data Sheet (MSDS) ing the listed substance oped by a different south has been submitted by our company or by a different south	for the listed te. If you possess tree, submit your circling the

MATERIAL SAFETY DATA SHEET	HAZARD RATING Fire 4 — EXTREME Reactivity
F P	3 - HIGH 2 - MODERATE
PRODUCT F-0071A	1 — SLIGHT Foxicity
100 CO CO CO	0 - INSIGNIFICANT Special
Isofoam® Systems Son Plan Ball Band	EMERGENCY TELEPHONE
Triumph Industrial Park, 505 Blue Ball Road	MANUFACTURER 3011 392-4800
P.O. Box 70, Elkton, MD 21921 (301/392-4800)	CHEM TREC 1-(800) 424-9300
Reactive Isocyanates 200	Proprietary
	transfer of the second
SECTION IF—CHEMICAL AND PHYSICAL PROPERTIES CHEMICAL HAZARDOUS DECOMPOSITION PRODUCTS	PHYSICAU
Oxides of carbon and nitrogen	Liquid
5 Maria Cara Cara Cara Cara Cara Cara Cara	ODORY
INCOMPATIBILITY (KEEP AWAY FROM)	TOT Odom
Water (moisture), Alcohols, Amines, Strong Acids and Bases	
LIST ALL TOXIC AND HAZARDOUS INGREDIENTS	COLOR.
Toluene Diisocyanate (TDI)/Methylenediphenyl Diisocyanate	Dark Brown
(MDI) and Polyether Prepolymer with 29% Free Isocyanate.	SPECIFIC GRAVITY 1.15@ 25°C
	BOILING PT.
SECTION OF FIRETAND EXPLOSION DATA	128 .,°C
equipped to prevent breathing of vapors or all the state of the state	13 263 °F
products of combustion Must work so le	MELTING PT. NDA °C
contained breathing apparatus. FLAMMABLE LIMITS % NDA	NDA %
27 LOWER UPPER	SOLUBILITY
AVOID THE AND EXPLOSION HAZARDS AVOID TO STURE EXTINGUISHING AGENTS	IN WATER Reacts
contamination in closed containers. Reac-XI DRYCHEMICAL X CO.	
The same and the s	% VOLATILE 1 1139/ 119-12
	16 (BY WT %) Nil
	EVAP. RATE
PHEMICRIFIC CONCENTRATIONS (AIR)	7 17 (
	VAPOR PRESSURE
29 0.02 ppm - O.S.H.A. TLV for TDI	VAPOR DENSITY NO. 346
CAUSE headaches, nausea, coughing, shortness of breath, &	19 (AIR = 1) NDA
30 CIMBC discomfort May result in respiratory distress.	pH AS IS NUA
reaction. Persons with known respiratory allergies should	20 pH () NDA
in avoid exposure to this product.	STRONG ACID
In case of eyercontact, flush with plenty of water for	STRONG BASE
32 143 at least 15 minutes. Call a physician.	STABLE
Wash thoroughly with soap and water. Remove	UNSTABLE Q
contaminated clothing & discard contaminated shoes Wash clothing before reuse	VISCOSITY SINGS
Remove from contaminated area to fresh air envir-	SUS 100 OR >U
DHALATION onment Call a physician. If victim is not breath	
-ing, give artificial respiration, preferably	. 23

MA NOT APPLICABLE

NDA - NO DATA AYAILABLE

Call a physician immediately.

<= Lessthan

AEMORE THAM

Viscosity @ 25°C

120 cps

MATERIAL SAFETY DATA SHEET PRODUCT_

SECTION V SPECIAL	PROTECTIONINFORMATIO	N#			
VENTILATION TYPE REQUIR	ED ILOCAL, MECHANICAL, SPECIAL	LI .	· · · · · · · · · · · · · · · · · · ·	PROTECTIVE GLOVES .	
Mychanical to m	aintain wanana halaw	At- mar mrss		Imponisione	rubber or
The Chamiltoni, 100 like	aintain vapors below	the, IDI TLV	= 0.02 ppin	33 plastic	ना शराबर
38	A Comment of the Comm			EYE PROTECTION Saf	ety goggles
RESPIRATORY PROTECTION	ISPECIFY TYPEL	A CONTRACTOR OF THE CONTRACTOR		and face shi	eld to avoid
Use NIOSH ap	proved!breathing app	aratus.		39 splashing on OTHER PHOTECTIVE EQU	lace.
			al design of the second		
37		3		Work clothathing	muniprovides
SECTION VI HANDLIN	GOESPILS OF LEAVE			40 protection fr	om splashed
PROCEDURES FOR CLEAN-UP	Vith adequate vent	ilation cove	r with an i	nont chamba-	AND THE PARTY OF T
lacer on ordinal	CIMICATIVE LIGHTS E	' LO a metal	へへわじ ココロロヤ	Caturatath	
JULY DOUD THE COMP	ALIVER CUOTATION DE LA	Tenenated W	ach tha awa		
12 Alle ammiorized etter of	e cerkent. Wear, resni	rator and of	her protect	ive equipment	for protection
of eyes and sk	in during cleanup.		A territoria de la compansión de la comp	in (in the contract of the con	ELD OFFICE
WASTEDISPOSAL			1,.		
Dispose of	consistant with End.	on approximation to the control of t	4		and the second
42	consistent with Fede	ral, State, a	nd local re	egulations.	A Section 1
FORMATION THE PARTY OF THE PART	Constitution of the second sec		1		
SECTION VINE SPECIAL PRECAUTIONS TO BE TAKEN I	PRECAUTIONS	a captura	~	See a se	
4.5					- Alterial
Word Col	tact with moisture.	Isocyanates	react with	water and gene	rate CO2
43 Willes may rupt	ture sealed container	rs. Store bet	ween 60 and	85°F (15 and 3	30°C).
SECTION VIII TRANSPO	ORTATION DATA!				
UNREGULATED X	U.S. D.O.T. PROPER SHIPPING NA	AME			
BY D.O.T. X	47 NA	्र-स्टिंग्,			
REGULATED:	U.S. D.O.T. HAZARD CLASS				
BY D.O.T	NA '	A的特殊作品。		to have a second to the first	I.D. Number
TRANCRODIATION	RQ LABELIS) REQUIR	RED		The state of the s	49 NA
TRANSPORTATION	50 51 NA		• • • • • • • • • • • • • • • • • • •		
INFORMATION	FREIGHT CLASSIFICATION				
CHEM TREC	52 Liquid Plastic	Material/NOI	3N		
T-(800) 424-9300	SPECIAL TRANSPORTATION NOT	ES			
48	None .				Ch. ev.
ECTIONIX TEOMMENT	Ç!				
	The state of the s	TO 1112 1010			
THE FOAM N	PRODUCED IS AN ORGAN AUST NOT BE LEFT EXP	TO AND MUST E	BE CONSIDER	ED AS COMBUSTI	LBE.
HEAT AND S	SPARKS WITH A THERMA	OSED OK ÚNIKU	MECTED. S	HIELD THE FOAM	FROM
54		Dimingui.			
11/1	1/10/0	C. Virginia.			**************************************
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REVISION DATE 6/24/	35	The state of the second second	-5, COL VICE	Danel ATSOL	
	Jeili 10 Atti	1 that and	-		DATE_6/34/85
SUPERSEDES5/ 9/8		The second secon			
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		的"唯""静"表示"		建筑	
					443.56.5

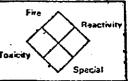
Wa believe the statements, technical information and recommendations contained herein are reliable, as are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility proy loss, damage, or expense, direct or consequential, arising out of their use.

II.II

MATERIAL SAFETY DATA SHEET

PRODUCT F-0366B

HAZARÐ RATING
N 4 — EXTREME
F 3 — HIGH
P 2 — MODERATE
A 1 — SLIGHT
O — INSIGNIFICANT





Isofoam® Systems

Triumph Industrial Park, 505 Blue Ball Road P.O. Box 70, Elkton, MD 21921 (301/392-4800)

EMERGENCY TELEPHONE
MANUFACTURER
30 L -392-4800
CHEM THEC 1-(800) 424-9300

FORMULA Blend of polyols, surfactants

Not Applicable atalysts & blowing agents PHYSICAN - 4 1 SECTION IN TEREMICAL AND PHYSICAL PROPERTIES CHEMICAL HAZARDOUS DECOMPOSITION PRODUCTS Liquid 8 Oxides of Carbon and Nitrogen ODOR Slight Amine INCOMPATIBILITY (KEEP AWAY FROM) APPEARANCE Reacts with Isocyanates Viscous Liquid 10 LIST ALL TOXIC AND HAZARDOUS INGREDIENTS 11 SPECIFIC GRAVITY Amine Catalysts 1.02 @ -25⁰C 12 (WATER = 1) BOILING PT. 100 - °C Contains SECTION-IN FIRE AND EXPLOSION DATA SPECIAL FIRE FIGHTING PROCEDURES
Firefighters must be equipped to preventWithout CC13F/H₂O H_2O 212 = °F breathing of vapors or products of com- 26 > 175 oc > 350 of MELTING PT. NA °C bustion. Wear self-contained breathing FLAMMABLE LIMITS % NA of apparatus. 27 LOWER ____UPPER ____ SOLUBILITY EXTINGUISHING AGENTS UNUSUAL FIRE AND EXPLOSION HAZARDS IN_WATER Slight A THE STATE MDRYCHEMICAL MCO2 °C NDA 数 WATERSPRAY 图 FOAM % VOLATILE ☐ WATERFOG ☐ SAND/EARTH (BY WT %) 28 OTHER. EVAP. BATE والمجارية SECTION IV HEALTH HAZARO DATA PERMISSIBLE CONCENTRATIONS (AIR) VAPOR PRESSURE NDA NDA 18 (mm Hg at 20°C) VAPOR DENSITY EFFECTS OF OVEREXPOSURE (AIR = 1)Irritant to eyes and respiratory tract NDA pH A3 IS NDA pH. YOXICOLOGICAL PROPERTIES 20 ADW. STRONG ACID ___ EMERGENCY FIRST AND PROCEDURES STHONG BASE _ Wash with large amounts of water for 15 minutes and 32 EYES see a physician. UNSTABLE _____ Wipe off excess and wash area with soap & water. 11 11 11 11 11 11 33 SKINGONVACT Remove contaminated clothing and discard contam-VISCOSITY . . . <100 D inated shoes. Wash clothing before reuse. D≪ RQOG Provide uncontaminated air supply and see a physician. Viscosity @ 25°Cis savysowen See a physician immediately.

. 193	WITHOUTH ONE IN THE	A OILLI	PRODUCT E-03a6B
LOTION VESPECIAL	POTECTION INFORMATION		
THE ALION TYPE REQUIRE	(LOCAL, MECHANICAL, SPECIAL)		PROTECTIVE GLOVES
	A Section 1997 And the second section 1997 And the section	**************************************	Impervious rubber or
Hechanical		7.73	30 plastic
••••			EYE PROTECTION
TO PROTECTION I	SPECIFY TYPE)		Safety Goggles
			OTHER PROTECTIVE EQUIPMENT
Use only NIOS	SH approved apparatus	·	, ,
3/		e i se sance de an estado de Ma	Normal work clothes
SECTION VI HANDLIN	GOF SPILES OF LEAKS	grand the state of	the second secon
PHUCEDURES FOR CLEAN-UP		- 1	
lists adament		Section 1	ja u nije i kaja sekat nine ne en 💥
with anequate	e ventilation, cover with an and transfer to a waste conta	inert absorben	t such as clay or
and water.	ind cransfer to a waste conta	imier. Wash ar	and the second s
Mid Water			
WAS SE DISPOSAL	The second secon	Section Control Section	
n:			
Dispose of Co	nsistent with Federal, State	, and local re	gulations.
42		· · ·	Auditoria de la companya de la comp
SECTION VIFE SPECIAL	PRECAUTIONS	·····	
PRECAUTIONS TO BE TAKEN I	in the second of		The second secon
Store between	1 60 and 85°F(15°- 30°C)		
47			
SECTION VIII TRANSPO	HTATION DATA		
In such and desired with the such desired to the party of	U.S. D.O.T. PROPER SHIPPING NAME	an a lagron	
BY D.O.T.	AZI NA		
14	U.S. D.O.T. HAZARD CLASS	,	
REGULATED BY.D.O.T.	<u>l</u>		I.D. NOMBER
18	A8 NA LABEL(S) REQUIRED		49 MA. 141
THANSPORTATION			the spine of the state of the s
INFORMATION	FREIGHT CLASSIFICATION		
	52 Liquid Plastic Material/	VOTBN	
CHEM TREC	SPECIAL TRANSPORTATION NOTES		
>(300) 424-9300	None		
10)	The second secon		
EGTION IX COMMENT	, AA		
SPECIAL: NOTICE:	THE ECAM PRODUCED IS AN ORCE	NIC MATERIAL A	ND MUST BE CONSIDERED AS
14 T	TOWN TO THE TOWN THE TOWN		• • • •
	COMBUSTIBLE THE FOAM MUST	NOT BE LEFT EX	POSED OR UNPROTECTED.
244	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN	NOT BE LEFT EX	POSED OR UNPROTECTED.
04	COMBUSTIBLE THE FOAM MUST	NOT BE LEFT EX	POSED OR UNPROTECTED.
543	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN	NOT BE LEFT EX	POSED OR UNPROTECTED.
DAY / DAY /	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED. A THERMAL BARRIER.
1	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED.
BUINATURE ALL	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED. A THERMAL BARRIER.
6 (2) (3)	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN DOLL TITLE 5 SENTTO ATTN:	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED. A THERMAL BARRIER.
46VISION DATE 6/24/8	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN DOLL TITLE 5 SENTTO ATTN:	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED. A THERMAL BARRIER.
46VISION DATE 6/24/8	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN DOLL TITLE 5 SENTTO ATTN:	NOT BE LEFT EX ID SPARKS WITH	POSED OR UNPROTECTED. A THERMAL BARRIER.
42VISION DATE 6/24/8 MARKES 8/25/8	COMBUSTIBLE. THE FOAM MUST SHIELD THE FOAM FROM HEAT AN DOLL TITLE 5 SENTTO ATTN:	NOT BE LEFT EXID SPARKS WITH Sales/Service	POSED OR UNPROTECTED. A THERMAL BARRIER. e/Supervisor DATE 6/24/85

the bulleve the statements, technical information and reconstructions contained herein are reliable, but they will use without without programme of any kind express or implied, and we assigne no responsibility for they use, damage, or expense, direct or constructed, avising out of their use.



Technical Data Sheet

ISOFOAM* F-0071A/F-0366B

For Industrial Use Only

CHEMTREC EMERGENCY NUMBER

1-800-424-9300

DESCRIPTION

Isofoam* F-0071A/F-0366B is a high property cold cure flexible foam designed for seating applications that does not require a post cure at elevated temperature, and, in most cases, does not require crushing. Its excellent flowability, rapid demold times, and low compression sets make it an excellent choice where optimum seating foam is required.

HANDLING CHARACTERISTICS

	Mixing Ratio by Weight	Viscosity @ 25 ⁰ C		
F-0071A	100	125 cps		
F-0366B	200	1600 cps		

HANDMIX REACTIVITY @ 77°F - Typical

Mix Time, secs.		10
Cream Time, secs.		20
Rise time, mins:secs.		2:30
Density, (core) pcf	4. N 4	2.80

MACHINE MIXING CONDITIONS - Typical

Thruput, lbs./min.	15-20
Type of Mixer	M-50
Mixing Speed, rpm	5000
A/B Temperature, OF.	75-100
Mold Temperature, OF.	80-110
Demold Time, Mins.	7-10

MECHANICAL PROPERTIES - Typical

ASTM-D-1564

Mold S	Size		15*	х	15"	x	4	.5"
Core i	Density,	pcf	2.8	0				

*REGISTERED TRADEMARK



Technical Data Sheet $Isofoam^R F-0071A/F-0366B$ Page 2 of 3

MECHANICAL PROPERTIES (CONTINUED)

Overall Density, pcf Tensile, psi Elongation, % Tear, pli Compression Set, 50%(Core)	3.00 18 150 1.6 7.0
75%	8.0
Compression Deflection, psi	•
25%	0.30
50%	0.50
**ILD, Pound to Deflect to	
Deflection Shown:	
25% lbs.	27
65% lbs.	80 '
25% R lbs.	22
Sag Factor	3.0

AUTOCLAVE AGING, 5 HOURS, 250°F.

Compression	Defle	ection	n Loss	
•		25%,	50%	35/35
Compression	Set,	50%		17

**ON A MOLDED PIECE 15" x 15" x 4.5"

THE FOAM PRODUCED IS AN ORGANIC MATERIAL. IT MUST IMPORTANT NOTICE: BE CONSIDERED AS COMBUSTIBLE AND MAY CONSTITUTE A FIRE HAZARD. THE FOAM MUST NOT BE LEFT EXPOSED OR

UNPROTECTED.

SAFETY AND HANDLING

F-0071A contains reactive isocyanate groups while F-0366B contains amine and/or organo-metallic catalysts.

Both materials must be handled and used with adequate ventilation. The vapors must not exceed the TLV for isocyanates. Avoid breathing vapors. Wear a NIOSH approved respirator. If inhalation of vapors occurs, remove victim from contaminated area and administer oxygen if breathing is difficult. Call a physician immediately.

Avoid contact with skin, eyes, and clothing. Wear chemical safety goggles and rubber gloves when handling or working with these materials. In case of eye contact, immediately flush with large amounts of water for at least 15 minutes. Call a physician. In case of skin contact, wash area with large amounts of soap and water. Wash clothes before reuse.

chnical Data Sheet .sofoam F-0071A/F-0366B Page 3 of 3

CLEAN UP OF SPILLS OR LEAKAGE

Cover the area with an absorbent material and transfer to metal waste containers. Saturate with water but do not seal the container with the isocyanate and water mixture.

NOTE: ISOCYANATES WILL REACT WITH WATER AND GENERATE CARBON DIOXIDE.
THIS COULD RESULT IN RUPTURE OF THE CLOSED CONTAINERS.

The area should then be flushed with large amounts of water in the case of F-0366B or a 5% aqueous solution of ammonia in the case of F-0071A.

Dispose of consistent with Federal, State, and local regulations.

STORAGE

When stored between 60-85°F (15-30°C) in sealed containers, both components have shelf lives of 6 months from the date of manufacture. Should freezing occur, the material must be thawed thoroughly and mixed until uniform. Opened containers must be handled to prevent moisture pick up or the loss of the blowing agent.

FREIGHT CLASSIFICATION

F-0071A/ and F-0366B are not hazardous materials under the U.S. Department of Transportation regulations.

Truck and railroad freight classification is "Liquid Plastic Material/NOIBN".

FIRE HAZARDS

Fires involving either of these components may be extinguished with carbon dioxide, dry chemical, or an inert gas. Application of large quantities of water spray is recommended for spill fires. Personnel fighting the fire must be equipped with NIOSH approved self-contained breathing apparatus.

The state of the s

DISCLAIMER

No warranties, express or implied, including patent warranties, or warranties of merchantability or fitness for use, are made by Isocyanate Products, Inc. with respect to products described or information set forth herein. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

DJW/rms 2/6/84

4.03	Submit a copy or reasonable facsimile of any hazard information (other than an MSDS) that is provided to your customers/users regarding the listed substance or any formulation containing the listed substance. Indicate whether this information has been submitted by circling the appropriate response. Yes									
	No			• • • • • • • • • •	•••••	(2				
4.04 CBI [_]	For each activity that uses corresponding to each physic listed. Physical states for the time you import or begin manufacturing, storage, disp final state of the product.	<pre>al state of the importing and p to process the</pre>	listed subsprocessing a listed subsprocession a listed	stance durir activities a stance. Phy ies are dete	ng the activit are determined vsical states	y at for				
			Phys	sical State	Liquified					
	Activity	Solid	Slurry	Liquid	Gas	Gas				
	Manufacture	1	2	3	4	5				
	Import	1	2	3	4	5				
	Process	1	2	3	4	5				
	Store	1	2	3	4	5				
	Dispose	1	2	3	4	5				
	Transport	1	2	3	4	5				

[_]	Mark	(X)	this	box	if	you	attach	а	continuation	sheet
-----	------	-----	------	-----	----	-----	--------	---	--------------	-------

4.05	Particle Size If the listed substance exists in particulate form during any of the
	following activities, indicate for each applicable physical state the size and the
	percentage distribution of the listed substance by activity. Do not include
	particles ≥10 microns in diameter. Measure the physical state and particle sizes for
	importing and processing activities at the time you import or begin to process the
CBI	listed substance. Measure the physical state and particle sizes for manufacturing
	storage, disposal and transport activities using the final state of the product.
(—)	

Physical State		Manufacture	Import	Process	Store	Dispose	Transport
Dust	<1 micron	NA	NA	NA_	<u>NA</u>	_NA_	<u> A</u> A
	1 to <5 microns						
	5 to <10 microns		_				
Powder	<1 micron		-				
	1 to <5 microns						
	5 to <10 microns						
						1	
Fiber	<1 micron				4		
	1 to <5 microns		1				
	5 to <10 microns				+		
Aerosol	<1 micron		_		 		
	1 to <5 microns						
	5 to <10 microns	+	+	<u> </u>	<u> </u>	+	

is box if you attach a continuation sh	heet.
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p, at , BOD ₅ ter, k _b	uk uk	uĸ	nm
p, at , BOD ₅ ter, k _b	uk uk	at 1/hr UK	nm latitu 1/8
e, at	uK	1/hr UK	latitu 1/N
, BOD ₅ ter, k _b		uk uk	1/i
, BOD ₅ ter, k _b		uĸ	1/1
, BOD ₅ ter, k _b		uĸ	1/1
, BOD ₅			
ter, k _b		uĸ	mg/
_			
_			
		uk	1/1
		uK	1/N
		uk	1/N
		uk	1/h
onditions)_		uk	
tion)		UK	
_	onditions)_	tion)	

PART	ВЕ	PARTITION COEFFICIENTS				
5.02	a.	Specify the half-life of the listed substance in the following media.				
		<u>Media</u>		Half-life (speci	fy unit	<u>s)</u>
		Groundwater	 	uk		
		Atmosphere		UK		
		Surface water		uk		
		Soil	·	UK		
	b.	Identify the listed sub life greater than 24 ho		nsformation product	s that	have a half-
		CAS No.	<u>Name</u>	Half-life (specify units)		<u>Media</u>
			UK		in	
			·		in	······································
					in	
					in	
5.03		cify the octanol-water particulation or de		•		
5.04		cify the soil-water part:			UK	at 25°C
	Soi	1 type	· • • • • • • • • • • • • • • • • • • •			
5.05		cify the organic carbon-v fficient, K _{oc}			uk	at 25°C
5.06	Spec	cify the Henry's Law Cons	stant, H		uk	atm-m³/mole
[_]	Marl	x (X) this box if you att	ach a continuation	n sheet.		

Bioconcentration Factor	Species	<u>Test</u> ¹
UK		
•		
¹ Use the following codes to des	ignate the type of test:	
F = Flowthrough		
S = Static		
		-
•		

	•		eporting year.
[_]			/.
	Market	Quantity Sold or Transferred (kg/yr)	Total Sales Value (\$/yr)
1	Retail sales	/	
. 1	Distribution Wholesalers		
1	Distribution Retailers		
:	Intra-company transfer		
1	Repackagers		
I	Mixture producers		
1	Article producers		
	Other chemical manufacturers or processors		
]	Exporters		
(Other (specify)		
/.	<u>/</u>		
<u>CBI</u>	Substitutes List all known commerciate the listed substance and state the feasible substitute is one which is ection your current operation, and which reperformance in its end uses.	cost of each substitut onomically and technolo	e. A commercially ogically feasible to use
[_]	Substitute		Cost (\$/kg)
_	uk		<u>uk</u>
-			
_			
[_]	Mark (X) this box if you attach a cont	inuation sheet.	

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

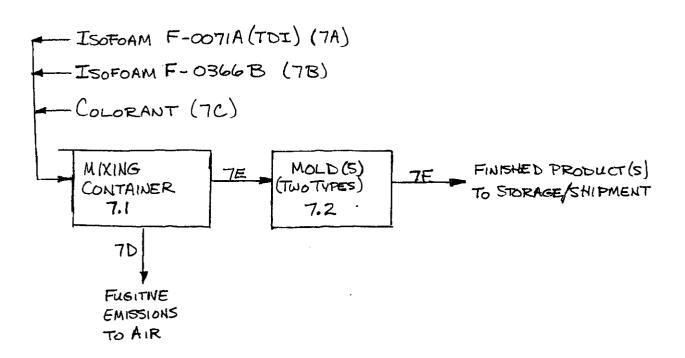
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

[] Process type POLYURETHANE FORM BLOCK & AIR SEAL

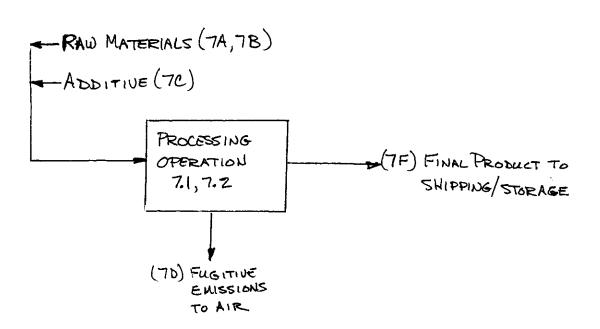


[] Mark (X) this box if you attach a continuation sheet.

7.03 In accordance with the instructions, provide a process block flow diagram showing all process emission streams and emission points that contain the listed substance and which, if combined, would total at least 90 percent of all facility emissions if not treated before emission into the environment. If all such emissions are released from one process type, provide a process block flow diagram using the instructions for question 7.01. If all such emissions are released from more than one process type, provide a process block flow diagram showing each process type as a separate block.

CBI

Process type POLYURETHANE FORM BLOCK # AIR SEAL



[] Mark (X) this box if you attach a continuation sheet.

7.04	Describe the typical equipment types for each unit operation identified in your process block flow diagram(s). If a process block flow diagram is provided for more than one process type, photocopy this question and complete it separately for each process type.							
CBI		_		•				
[_]	Process type	e POLYURETHAN	E FOAM BLOCK	\$ AIR SEAL				
	Unit Operation ID Number	Typical Equipment Type	Operating Temperature Range (°C)	Operating Pressure Range (mm Hg)	Vessel Composition			
	7.1	OPEN TOP MIX BOWL	AMBIEUT	ATMOSPHERIC	PAPER/PLASTIC			
	7.2_	MOLD	AMBIENT	ATMOSPHERIC	ALUMWUM			
		·						
								
					-			

7.05	process block	process stream identified in your flow diagram is provided for more complete it separately for each pr	e than one process type	
<u>CBI</u>	Process type .	POLYURETHANE FOAM BL	OCK & AIR SEAL	
	Process Stream ID Code	Process Stream Description	Physical State ¹	Stream Flow (kg/yr)
	70	FUGITIVE AIR EMISSIONS	<u>Gu</u>	MINIMAL

				-869**
	GC = Gas (con GU = Gas (unc SO = Solid SY = Sludge o AL = Aqueous OL = Organic	liquid	and pressure) e and pressure)	
		box if you attach a continuation		

<u>CBI</u>	this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.) Process type POLYURETHANE FORM BLOCK & AIR SEAL									
[_]	Process type	e POLYURETH	LANE FORM BLO	CK & AIRSEAL	-					
	a.	b.	с.	d.	e.					
	Process Stream ID Code	Known Compounds ¹	Concen- trations ^{2,3} (% or ppm)	Other Expected Compounds	Estimated Concentrations (% or ppm)					
	70	TDI	MINIMAL	NONE	0.0					
		AIR	100%	NONE	NA					
					<u> </u>					
7.06	continued be	elow								

7 /	06 (Cont	inue	<i>a</i>
/ . 1	ו סט	con	inue	a)

¹For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column b. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

Additive <u>Package Number</u>	Components of Additive Package	Concentrations (% or ppm)
1	COLORANT	12% (E)(W)
2		
3		
4		
	•	
5		
² Use the following codes to	designate how the concentr	ation was determined:
A = Analytical result E = Engineering judgement/c		acton was determined.
Use the following codes to	designate how the concentr	ation was measured:
V = Volume W = Weight		
ark (X) this box if you atta	ch a continuation sheet.	

DADT	Δ	RESTRUME.	TREATMENT	PROCESS	DESCRIPTION
PARI	A	KESTDUAL	INCATACNI	rnucess	DESCRILLION

8.01 In accordance with the instructions, provide a residual treatment block flow diagram which describes the treatment process used for residuals identified in question 7.01.

CBI

[] Process type POLYURETHANE FORM BLOCK & AIR SEAL

MIXING
CONTAINER

8.1

PA

FUGITIVE
EMISSIONS
TO AIR

[[]__] Mark (X) this box if you attach a continuation sheet.

8.05 <u>CBI</u>	Characterize each process stream identified in your residual treatment block flow diagram(s). If a residual treatment block flow diagram is provided for more than opposes type, photocopy this question and complete it separately for each process type. (Refer to the instructions for further explanation and an example.)							
[_]	Process	type	POLYUR	ZETHANE TO A	m Block \$A	IRSEAL		
	a.	b .	c.	d.	e.	f.	g.	
	Stream ID Code	Type of Hazardous Waste	Physical State of Residual ²	Known Compounds ³	Concentra- tions (% or ppm) ^{4,5,6}	Other Expected Compounds	Estimated Concen- trations (% or ppm)	
	8A	UK	GU	NA	uk	NA	_ NA	
						-		
								
			-				_	
				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
							-	
							-	
							_	
			-					
8.05	continu	ed below						

8.05 (continued) ¹Use the following codes to designate the type of hazardous waste: I = Ignitable C = Corrosive R = Reactive E = EP toxicT = ToxicH = Acutely hazardous ²Use the following codes to designate the physical state of the residual: GC = Gas (condensible at ambient temperature and pressure) GU = Gas (uncondensible at ambient temperature and pressure) SO = SolidSY = Sludge or slurry AL = Aqueous liquid OL = Organic liquid IL = Immiscible liquid (specify phases, e.g., 90% water, 10% toluene)

8.05 continued below

[_] Mark (X) this box if you attach a continuation sheet.

8.05 (contin	ue	d)
--------------	----	----

³For each additive package introduced into a process stream, specify the compounds that are present in each additive package, and the concentration of each component. Assign an additive package number to each additive package and list this number in column d. (Refer to the instructions for further explanation and an example. Refer to the glossary for the definition of additive package.)

	Additive Package Number	Components of Additive Package	Concentrations (% or ppm)
	1	NO ADDITIVE PACKAGES	
	2		
	3		-
	4		
	5		
			
	⁴ Use the following codes	s to designate how the concentration	n was determined:
	A = Analytical result E = Engineering judgeme	ent/calculation	
8.05	continued below		
[_]	Mark (X) this box if you	attach a continuation sheet.	
		E C	

8.05	(continued)
------	-------------

⁵Use the following codes to designate how the concentration was measured:

V = Volume

W = Weight

⁶Specify the analytical test methods used and their detection limits in the table below. Assign a code to each test method used and list those codes in column e.

Code	Method		Detection Limit (± ug/l)
1	NA NA		
2			
3			
4		<u>_</u>	
5			
6		<u></u>	

[_] Mark (X) this box if you attach a continuation sheet.

8.06	diagram process	(s). If a retype, photoe	esidual trea copy this qu	atment block uestion and	flow diagr complete it	am is pro separate	reatment blo vided for mo ly for each an example.)	re than one process
<u>CBI</u>	Process	type	Polyu	RETHANE F	JAM BL	ock \$f	IIRSEAL	
	a.	b.	c.	d.	e.	·	f.	g.
	Stream ID Code	Waste Description Code ¹	Management Method Code ²	Residual Quantities (kg/yr)		gement lual (%) Off-Site	Costs for Off-Site Management (per kg)	Changes in Management Methods
	8A	B91_	<u>M5</u>		NA_	_NA_		_NA
	_				-		descriptions ment methods	
[_]	Mark (X)) this box is	f you attach	n a continua	tion sheet.			

8.22 CBI	(by capacity)	incinerators	that are us	n parameters for eac sed on-site to burn ent block flow diagr	the residuals id	argest lentified in
[_]		Cha	ustion amber cure (°C)	Location of Temperature Monitor	In Co	dence Time ombustion (seconds)
	Incinerator	Primary	Secondary	Primary Second	lary Primary	Secondary
	1					
	2		/	\sim		
	3					
		e if Office o		ce survey has been s	submitted in lieu	ı of response
	Yes ····	• • • • • • • • • • • •				
	No	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			2
8.23 <u>CBI</u> []	are used on-si treatment bloc	te to burn t	the residuals ram(s). PRS USE Air Po	three largest (by cast identified in your pour pour pour pour pour pour pour p	r process block o Type Emissic	
		e if Office o ing the appr		e survey has been soonse.	submitted in lieu	of response
	Yes	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •		1
	No					
		wing codes t (include typ atic precipi	o designate	the air pollution or in parenthesis)		
[_]	Mark (X) this	box if you a	ttach a cont	inuation sheet.		

PART A EMPLOYMENT AND POTENTIAL EXPOSURE PROFILE

İ	Da	ata are Ma	intained for	: Year in Which	Number of
ם	— Data Element	Hourly Workers	Salaried Workers	Data Collection Began	Years Record: Are Maintain
E	Date of hire	_X	_×	1965	TERM +2
A	Age at hire	×		1965	TERM +2
V	Work history of individual before employment at your facility	_NA	NA	NA	NA
S	Sex	X		1965	TERM +2
F	Race	_×	_×	1965	TERM+2
J	Job titles			1965	ERM+2
5	Start date for each job title			1965	TERM+2
E	End date for each job title	_×	_×	1965	TERM+2
ī,	Work area industrial hygiene monitoring data	_×	_×	1980	_30
Ī	Personal employee monitoring data	_X	X	1980	<u> 30</u>
F	Employee medical history	_×	_×	1965	TERM+30
F	Employee smoking history	NA	NA	Аи	NA
A	Accident history	_x_		1965	TERM+36
F	Retirement date			1965	TERM+2
1	Termination date			1965	ERM+2
V	Vital status of retirees	NA	_NA_	A <i>u</i>	AU
(Cause of death data	_NA_	NA_	NA	N.A

9.02 CBI	In accordance with the in which you engage.	instructions, complete t	he following ta	ble for ea	ch activity
[_]	a.	b.	c.	d.	e.
	Activity	Process Category	Yearly Quantity (kg)	Total Workers	Total Worker-Hours
	Manufacture of the	Enclosed		_0_	
	listed substance	Controlled Release		0	O
		0pen			
	On-site use as reactant	Enclosed			
		Controlled Release	O	_0_	
		0pen			O
	On-site use as	Enclosed	O		
	nonreactant	Controlled Release			O
		0pen	0	0	
	On-site preparation	Enclosed	0	0	
	of products	Controlled Release	0	0_	0
		0pen	8]	500
		-			

[_]	Mark (X)	this	box	if you	attach	а	continuation	sheet.			

9.03	Provide a descriptive j encompasses workers who listed substance.	ob title for each labor category at your facility that may potentially come in contact with or be exposed to the
CBI		
[_]		
	Labor Category	Descriptive Job Title
	A	SYNTHETIC MATERIALS FABRICATOR
	В	
	С	
	D	
	E	
	F	
	G	
	H	
	I	
	J	
	·	
		•
[]	Mark (X) this how if you	u attach a continuation sheet.

9.04	In accordance with the instructions, provide your process block flow diagram(s) an indicate associated work areas.
BI	
	Process type POLYURETHANE FORM BLOCK & AIR SEAL
	SEE ATTACHED QUESTION 7.01

SECTION 7 MANUFACTURING AND PROCESSING INFORMATION

General Instructions:

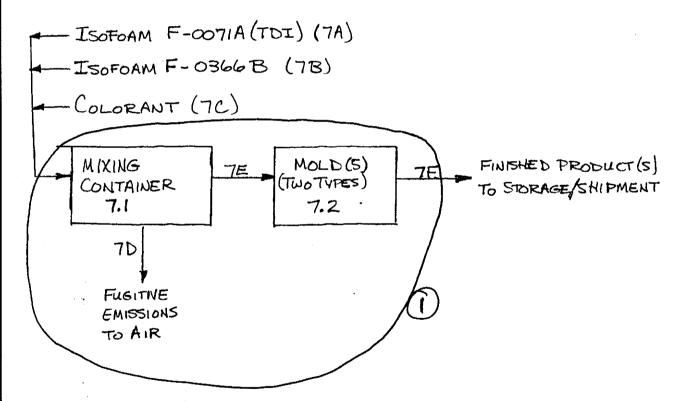
For questions 7.04-7.06, provide a separate response for each process block flow diagram provided in questions 7.01, 7.02, and 7.03. Identify the process type from which the information is extracted.

PART A MANUFACTURING AND PROCESSING PROCESS TYPE DESCRIPTION

7.01 In accordance with the instructions, provide a process block flow diagram showing the major (greatest volume) process type involving the listed substance.

CBI

Process type POLYURETHANE FORM BLOCK & AIR SEAL



[_] Mark (X) this box if you attach a continuation sheet.

9.05 CBI	may potentially come additional areas not	work area(s) shown in question 9.04 that encompass workers who in contact with or be exposed to the listed substance. Add any shown in the process block flow diagram in question 7.01 or question and complete it separately for each process type.
[_]	Process type	POLYURETHANE FOAM BLOCK & AIR SEAL
	Work Area ID	Description of Work Areas and Worker Activities
	1	SHOP FLOOR, WORKER MIXES 2 PART FORM AND COLORANT, POURS INTO MOLD(S), ALLOWS SOLIDIFICATION, REMOVES PARTS FROM MOLD(S)
	2	TO THE COURT OF THE PROPERTY O
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	10	
[_]	M1- (W) (1) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	you attach a continuation sheet.

9.06 CBI	each labor come in con	category at yo tact with or b	ble for each wor our facility that e exposed to the y for each proce	t enco e list	mpasses worker ed substance.	s who may pot Photocopy th	entially
[_]	Process type	e Pol	YURETHANE	FOAM	BLOCK & A	IR SEAL	
	Work area .	• • • • • • • • • • • • •	•••••		<u>1</u>		
	Labor Category	Number of Workers Exposed	Mode of Exposur (e.g., dire skin contac	ect	Physical State of Listed Substance	Average Length of Exposure Per Day ²	Number of Days per Year Exposed
	_A		INHALATION		GU	<u> </u>	250
							
			-				-
		-					
							-
							
	 						
	GC = Gas (tempe GU = Gas (tempe	condensible a crature and prounced proundensible crature and prouders fumes, values, values.	essure) at ambient essure;	SY = AL = OL =	ical state of Sludge or sl Aqueous liqu Organic liqu Immiscible l (specify pha 90% water, 1	urry id id iquid ses, e.g.,	bstance at
	² Use the fol	lowing codes	to designate ave	rage :	length of expo	sure per day:	
	B = Greater exceedi C = Greater	tes or less than 15 minum ng 1 hour than one hour ng 2 hours	·	E =	Greater than exceeding 4 hours of the Greater than exceeding 8 hours of the Greater than th	ours 4 hours, but ours	
[_]	Mark (X) thi	s box if you a	attach a continu	ation	sheet.		

BI] Process type	POLYURETHANE FOAM BLOCK	L AND ALE SEAL
		1
Labor Category	8-hour TWA Exposure Level (ppm, mg/m ³ , other-specify)	15-Minute Peak Exposure Leve (ppm, mg/m³, other-specify)
A	<u>uk</u>	<u>uk</u>
-		

ACTION AND AND AND ADDRESS OF THE ACTION AND		

8	If you monitor worke	r exposur	e to the li	sted substa	nce, compl	ete the fo	llowing table
• •							
]		Work	Testing Frequency	Number of Samples	Who		Number of Years Records
	Sample/Test	Area ID	(per year)	(per test)	Samples	(Y/N)	Maintained
	Personal breathing zone						
	General work area (air)						-
	Wipe samples						
	Adhesive patches						
	Blood samples						
	Urine samples						
	Respiratory samples						
	Allergy tests						
	Other (specify)						
	NO MONITORING HA	S BEEN D	DONE. Howe	EVER, DUE	TO CONSC	IOUSNESS L	EVEL BEING
	RAISED DUE TO THE Other (specify) IND	INDUAL INDUAL INDUST.	AIR SAMP	id to do	SO, WILL PLANT	INDUST?	FA AND RIAL
	Other (specify)						
	¹ Use the following c A = Plant industria		-	o takes the	monitorin	ng samples:	
	<pre>B = Insurance carri C = OSHA consultant D = Other (specify)</pre>	٨					

9.09 CBI	For each sample type analytical methodolo			be the type o	f sampling and					
[_]	Sample Type	S	ampling and Analyt	ical Methodol	ogy					
	SEE QUESTION 9.08. INTEND TO DO THE FOLLOWING:									
	RESONAL BREATHING ZON	PERSONAL BREATHING ZONE OSHA 4Z, HPLC								
	GEN'L WORK AREA AIR	OSHA 42,	HPLC							
9.10	If you conduct perso				substance,					
CBI	specify the followin	g information for a 9.08. INTEND		e used.						
<u></u> []	-	Detection Limit ²		Averaging Time (hr)	Model Number					
` <i>'</i>		0.5C			224-PCXR3					
					ZZT TOKICO					
					•					
										
	¹ Use the following co	odes to designate p	oersonal air monito	oring equipmen	t types:					
	A = Passive dosimete B = Detector tube	er								
	<pre>C = Charcoal filtrat D = Other (specify)</pre>									
	Use the following co		•	ing equipment	types:					
	E = Stationary monit F = Stationary monit									
	G = Stationary monit H = Mobile monitorin	ors located at pla	nt boundary							
	I = Other (specify)	TREATED GLASS	FIBER							
-	² Use the following co A = ppm	des to designate d	etection limit uni	ts:						
	B = Fibers/cubic cen C = Micrograms/cubic	timeter (f/cc) meter (µ/m³)								
,	_									
	Mark (X) this box if	you attach a conti	nuation sheet.							

CBI		_
[_]	Test Description	Frequency (weekly, monthly, yearly, etc.)
	DO NOT CONDUCT ROUTINE MEDICAL TESTS FOR	THIS EXPOSURE
		•

9.12 <u>CBI</u>	Describe the engineering controls that you use to reduce or eliminate worker exposure to the listed substance. Photocopy this question and complete it separately for each process type and work area.							
[_]	Process type	. POLYURETH	ANE FORM BLOC	K&AIR SEAL				
	Work area	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •	1				
	Engineering Controls	Used (Y/N)	Year Installed	Upgraded (Y/N)	Year Upgraded			
	Ventilation:							
	Local exhaust	N	_NA	NA	_NA			
	General dilution	_N	NA	NA	NA			
	Other (specify)							
	VEUT HOOD	<u> </u>	1985	_N	_NA			
	Vessel emission controls	N	NA	NA	NA			
	Mechanical loading or packaging equipment	_N	_NA	_NA	NA			
	Other (specify)							
		_N	<u>NA</u>	<u>NA</u>	NA			

<u>31</u>]	Process type POLYURETHANE FOAM BLOCK	\$ AIRSEAL
_'	Work area	
	Equipment or Process Modification	Reduction in Worker Exposure Per Year (%)
	NONE	
		-
		-
		•

PART	D PERSONAL PROTECTIV	E AND SAFETY EQUIPMENT			
9.14 CBI	in each work area in	al protective and safety equi order to reduce or eliminat by this question and complete	e their exposur	ce to the	listed
[_]	Process type	· POLYURETHANE FORM BL	XX & AIR SEAL	-	
				-	
			Wear or Use		
		Equipment Types	(Y/N)		
		Respirators	N		
		Safety goggles/glasses	<u>Y</u>		
		Face shields	_N		
		Coveralls	_N		
		Bib aprons	<u>Y</u>		
		Chemical-resistant gloves	Y		
		Other (specify)			

[_]	Process type	BLYURET	HAWE FOAM BI	ock \$ Ai	r SEAL	
	Work Area	Respirator Type	Average Usage	Fit Tested (Y/N)	Type of Fit Test ²	Frequency of Fit Tests (per year)
	_1	uĸ	A	<u>Y</u>	QL	1
	¹ Use the fol	lowing codes to desig	gnate average u	sage:		
	A = Daily B = Weekly C = Monthly D = Once a E = Other (year				
	_	lowing codes to designative	gnate the type	—— of fit tes	t:	
	SEE QUES	TION 9.08. DO NO	OT CURRENT AIR SAMPLING	LY REQU S TO BE	LIRE USE	oF FD
		LIBED IN QUESTION	24 PO.P ZN	9.10 IN	DICATES A	,
	AS DEZEK		T TA COTOR	MIT TIM	E AND CO.	NTROL
	NEED, WIL	L SELECT A RESP IS INDICATED AB	OVE.			
	NEED, WIL	L SELECT A RESP IS INDICATED AB	OVE.			
	NEED, WIL	L SELECT A RESP IS INDICATED AB	OVE.			

PART	E WORK PRACTICES							
9.19 <u>CBI</u>	Describe all of the work peliminate worker exposure authorized workers, mark a monitoring practices, provuestion and complete it s	to the listed su reas with warnin ide worker train	bstance (e.g. g signs, insu ing programs,	, restrict en are worker det etc.). Phot	trance only to ection and cocopy this			
[_]	Process type Polyd	RETHANE FORM	Black& A	IR SEAL				
	Work area			_				
	BUILDING AND WORK A	IREA LIMITED	Access					
		VENT HOOD						
	PERSONAL PROTECTIVE E	QUIPMENT						
	EMPLOYEE TRAINING							
	Process type Poly			3-4 Times	More Than 4			
	Housekeeping Tasks	Once Per Day	Per Day	Per Day	Times Per Day			
	Sweeping							
	Vacuuming	×						
	Water flushing of floors	×						
	Other (specify)							
				•				

9.21	Do you have a written medical action plan for responding to routine or emergence exposure to the listed substance?
	Routine exposure
	Yes
	No
	Emergency exposure
	Yes
	No
	If yes, where are copies of the plan maintained?
	Routine exposure:
	Emergency exposure:
9.22	Do you have a written leak and spill cleanup plan that addresses the listed substance? Circle the appropriate response.
	Yes 1
	No 2
	HAVE A SPILL CLEANUP PLAN. NEITHER TOI NOR ANY OTHER SUBSTANCE ADDRESSED If yes, where are copies of the plan maintained?
	Has this plan been coordinated with state or local government response organizations? Circle the appropriate response.
	Yes 1
	No
9.23	Who is responsible for monitoring worker safety at your facility? Circle the appropriate response.
	Plant safety specialist 1
	Insurance carrier 2
	OSHA consultant
	Other (specify) 4
[_]	Mark (X) this box if you attach a continuation sheet.

SECTION 10 ENVIRONMENTAL RELEASE

General Instructions:

Complete Part E (questions 10.23-10.35) for each non-routine release involving the listed substance that occurred during the reporting year. Report on all releases that are equal to or greater than the listed substance's reportable quantity value, RQ, unless the release is federally permitted as defined in 42 U.S.C. 9601, or is specifically excluded under the definition of release as defined in 40 CFR 302.3(22). Reportable quantities are codified in 40 CFR Part 302. If the listed substance is not a hazardous substance under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and, thus, does not have an RQ, then report releases that exceed 2,270 kg. If such a substance however, is designated as a CERCLA hazardous substance, then report those releases that are equal to or greater than the RQ. The facility may have answered these questions or similar questions under the Agency's Accidental Release Information Program and may already have this information readily available. Assign a number to each release and use this number throughout this part to identify the release. Releases over more than a 24-hour period are not single releases, i.e., the release of a chemical substance equal to or greater than an RQ must be reported as a separate release for each 24-hour period the release exceeds the RO.

For questions 10.25-10.35, answer the questions for each release identified in question 10.23. Photocopy these questions and complete them separately for each release.

PART A	GENERAL INFORMATION
10.01	Where is your facility located? Circle all appropriate responses.
CBI	
[_]	Industrial area
	Urban area 2
	Residential area 3
	Agricultural area 4
	Rural area 5
	Adjacent to a park or a recreational area 6
	Within 1 mile of a navigable waterway 7
	Within 1 mile of a school, university, hospital, or nursing home facility8
	Within 1 mile of a non-navigable waterway 9
	Other (specify)10
—— [[—]]	Mark (X) this box if you attach a continuation sheet.

10.02	Specify the exact location of your facility (from central point where process unit is located) in terms of latitude and longitude or Universal Transverse Mercader (UTM) coordinates.							
	Latitude	•••••	33_•	47 00 "				
	Longitude	••••••	96 .	35, 00				
	UTM coordinates Zone	, North	ing, E	asting				
10.03	If you monitor meteorological cond the following information.	itions in the vicin	ity of your fac	ility, provide				
	Average annual precipitation	Average annual precipitation inches/year						
	Predominant wind direction							
10.04	Indicate the depth to groundwater	below your facility						
	Depth to groundwater			meters				
10.05 <u>CBI</u>	For each on-site activity listed, listed substance to the environmen Y, N, and NA.)							
[_]	On Site Activity	Env: Air	ironmental Rele Water	ase Land				
	On-Site Activity							
	Manufacturing	NA	NA	NA NA				
	Importing	<u> </u>	NA	. /				
	Processing		N	N				
	Otherwise used	NA	NA	_NA				
	Product or residual storage	N	N	<u>N</u>				
	Disposal	N	N	_ N				
	Transport	N	N	_N				
[_]	Mark (X) this box if you attach a co	ontinuation sheet.						

10.06 CBI	Provide the following information for the listed so of precision for each item. (Refer to the instruction example.)		
[_]	Quantity discharged to the air	uk	kg/yr <u>+</u>
	Quantity discharged in wastewaters	NA	kg/yr ± <u>O</u> %
	Quantity managed as other waste in on-site treatment, storage, or disposal units	NA	kg/yr ± <u>O</u> %
	Quantity managed as other waste in off-site treatment, storage, or disposal units	NA	kg/yr <u>+</u>
	MINISCULE AMOUNTS DISCHARGED TO AIR	45 Fugition	E EMISSIONS
	DURING MIXING PROCESS.		
	•		

10.08	Describe the control technologies used to minimize release of the listed substance for each process stream containing the listed substance as identified in your process block or residual treatment block flow diagram(s). Photocopy this question and complete it separately for each process type.						
CBI	•	BLYURETHANE FORM BLOCK & AIRS	_ √=A/ .				
r,	rrocess type	DETAILE THANK TONIT BELOW PATE					
	Stream ID Code	Control Technology	Percent Efficiency				
	NO CONTROL TECHN	ologies utilized. Releases Ari	E MINIMAL.				
			,				
	Manla /V\ alda la la de	u attach a continuation sheet.					

09	substance in residual tre source. Do sources (e.g for each pro	terms of a Strea eatment block flow not include raw m g., equipment leak ocess type.	entify each emission point source containing the listed am ID Code as identified in your process block or diagram(s), and provide a description of each point aterial and product storage vents, or fugitive emission s). Photocopy this question and complete it separately
	Process type	· ····· tolyure	ETHANE FOAM BLOCK & AIR SEAL
] -	Point Source ID Code		Description of Emission Point Source
-			NONE
-			
-			
_			
_			
-			
-			
_			

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10.11 CBI	Stack Par identifie	ameters d in questi	Identify the	e stack para completing	meters for the follow	each Point ing table.	Source ID C	ode
[_]	Point Source ID Code	Stack Height(m)	Stack Inner Diameter (at outlet) (m)	Exhaust Temperature (°C)	Emission Exit Velocity (m/sec)	Building Height(m)	Building 2 Width(m)	Vent Type
	NA	No Point	Source E	MISSIONS				
								
							·	
	1			1 13 14				
	_		or adjacent					
			r adjacent	ignate vent	tuna.			
	H = Hori		odes to des	ignate vent	type:			
	V = Vert							
			4					
				a continuation				

ize Range (microns)	Mass Fraction (% ± % precision)
< 1 ≥ 1 to < 10 ≥ 10 to < 30	Mass Fraction (% ± % precision)
≥ 1 to < 10 ≥ 10 to < 30	
≥ 10 to < 30	
_	
> 30 to < 50	
≥ 50 to < 100	
≥ 100 to < 500	
≥ 500	
	Total = 100%
	≥ 50 to < 100 ≥ 100 to < 500

10.13	types listed which are exposed to the listed substance and which are in service according to the specified weight percent of the listed substance passing through the component. Do this for each process type identified in your process block or residual treatment block flow diagram(s). Do not include equipment types that are not exposed to the listed substance. If this is a batch or intermittently operated process, give an overall percentage of time per year that the process type is exposed to the listed substance. Photocopy this question and complete it separately								
CBI	for each process type.								
[_]	Process type NA								
	Percentage of time per year type	r that the li	sted sub	stance is	exposed	to this p	rocess		
	cype		of Compo	nents in	Service by	y Weight 1	Percent		
	Pavinment Tune	Less	E 10%	11 058	04 75%	74 00%	Greater		
	Equipment Type Pump seals ¹	than 5%	<u>5-10%</u>	11-25%	<u>26-75%</u>	<u>76-99%</u>	than 99%		
	•								
	Packed								
	Mechanical								
	Double mechanical ²								
	Compressor seals ¹								
	Flanges								
	Valves								
	Gas ³								
	Liquid								
	Pressure relief devices ⁴ (Gas or vapor only)								
	Sample connections								
	Gas								
	Liquid			··					
	Open-ended lines ⁵ (e.g., purge, vent)								
	Gas								
	Liquid					***************************************			
	¹ List the number of pump an compressors	d compressor	seals, r	ather tha	in the num	ber of pu	imps or		
10.13	continued on next page								

10.13	(continued)								
	² If double mechanical seals are operated with the barrier (B) fluid at a pressure greater than the pump stuffing box pressure and/or equipped with a sensor (S) that will detect failure of the seal system, the barrier fluid system, or both, indicate with a "B" and/or an "S", respectively								
	³ Conditions existing in th	e valve during norma	l operation						
	⁴ Report all pressure relie control devices	f devices in service	, including those	equipped with					
	⁵ Lines closed during norma operations	l operation that wou	ld be used during	maintenance					
10.14 CBI	Pressure Relief Devices wi pressure relief devices id- devices in service are con enter "None" under column	entified in 10.13 to trolled. If a press	indicate which p	ressure relief					
··	a. Number of	b. Percent Chemiçal	c.	d. Estimated					
	Pressure Relief Devices	in Vessel ¹	Control Device	Control Efficiency					
	NA NA								

	Refer to the table in quest heading entitled "Number of Substance" (e.g., <5%, 5-10	f Components in Serv	d the percent rangice by Weight Perc	ge given under the cent of Listed					
	The EPA assigns a control of with rupture discs under no efficiency of 98 percent for conditions	ormal operating cond	itions. The EPA a	issigns a control					

10.15	Equipment Leak Detec place, complete the procedures. Photoco type.	following table re	garding thos	se leak dete	ection and re	epair
CBI						
[_]	Process type	• • • • • • • • • • • • • • • • • • • •		NA		
	Equipment Type	Leak Detection Concentration (ppm or mg/m³) Measured at Inches from Source	- Detection Device	of Leak Detection	Repairs Initiated (days after detection)	Repairs Completed (days after initiated)
			Device	(per year)	detection	
	Pump seals Packed Mechanical Double mechanical Compressor seals					
	Flanges					
	Valves					
	Gas		_			
	Liquid					
	Pressure relief devices (gas or vapor only)					
	Sample connections					
	Gas			•		
	Liquid					
	Open-ended lines					
	Gas					
	Liquid					
	¹ Use the following co POVA = Portable orga FPM = Fixed point mo O = Other (specify)	nnic vapor analyze onitoring	c			

: 1	CBI	or res.	IUUMI (IG	TOTAL DIOCK	flow diagram	ı(s).				Operat	_				
Wark (V) this		Vessel Type ¹		Composition of Stored Materials	Throughput (liters per year)	Filling	Vessel Filling Duration (min)			ing Vessel Volume	Vessel	Design Flow Rate		Control Efficiency (%)	Bas fo Estim
box 4f wom		_NA 													
* * * * * * * * * * * * * * * * * * * *				,										-	-
continua	i į														
→ 1		¹ Use t	he follow	ing codes to	designate ve	essel typ	 e:	²Use	the fo	llowing	codes to	designa	te floatir	g roof seal	.s:
ion sheet	**Use the following codes to designate vessel type: F = Fixed roof CIF = Contact internal floating roof NCIF = Noncontact internal floating roof EFR = External floating roof P = Pressure vessel (indicate pressure rating) H = Horizontal U = Underground						MS1 MS2 MS2 LM1 LM2 LMW VM1 VM2	. = Med 2 = Sho 2R = Rin 3 = Liq 4 = Rin 4 = Wea 4 = Vap 5 = Rin	chanical ne-mount ne-mount nuid-mount ne-mount ne-mount nuid-mount	shoe, pri ed seconda at, seconda mted resil at shield nield nted resili at secondar	mary ry ient fil	lled seal,	primary		
			_	=	the listed s	substance	. Include	e the tota	he total volatile organic content in parenthesis						
		_		ating roofs											
- 1		⁵ Gas/vapor flow rate the emission control device was designed to handle (specify flow rate units)													
		_	_												
		⁶ Use t	_	ring codes to				of control	L effi ci	iency:					

PART E NON-ROUTINE RELEASES

10.23 Indicate the date and time when the release occurred and when the release ceased or was stopped. If there were more than six releases, attach a continuation sheet and list all releases.

Release	Date Started	Time (am/pm)	Date Stopped	Time (am/pm)
1	NONE			
2				
3				
4				
5	<u> </u>			
6				

10.24 Specify the weather conditions at the time of each release.

Release	Wind Speed (km/hr)	Wind Direction	Humidity(%)	Temperature (°C)	Precipitation (Y/N)
1					
2				/	
3		<u></u>			
4					
5		>			
6					

[] Mark (X) this box if you attach a continuation sheet.



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ATTN: CAIR Reporting Office

